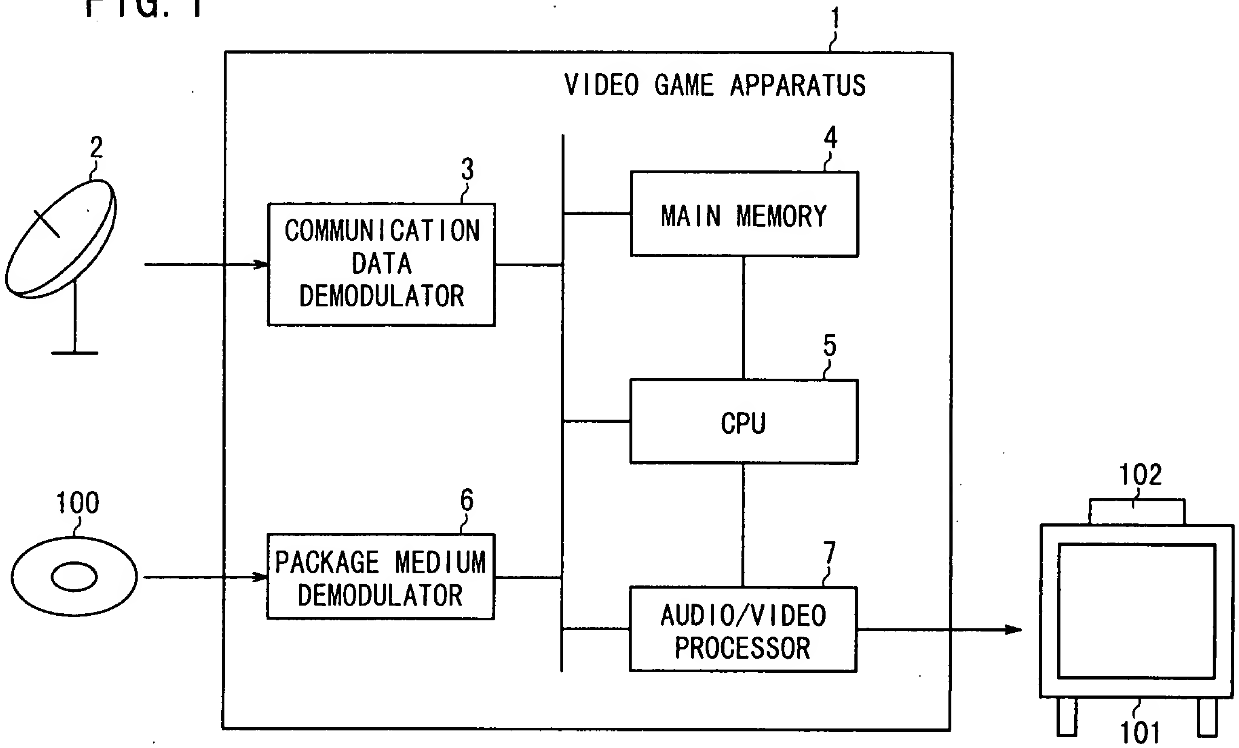
09388781.060299

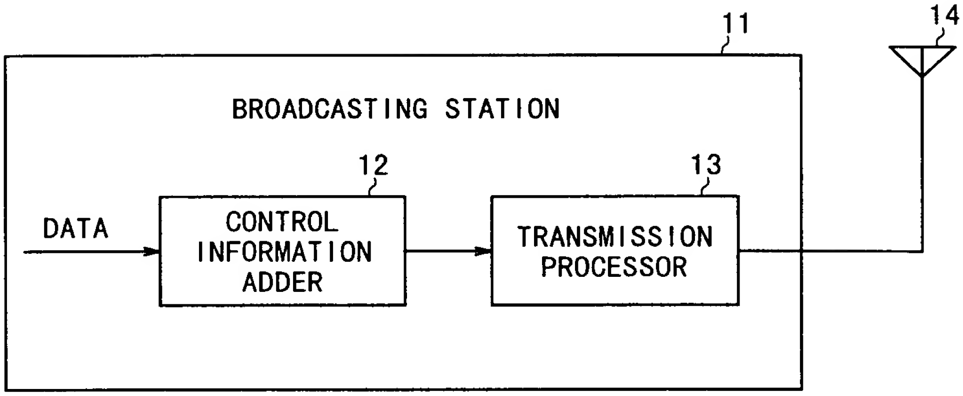
APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

FIG. 1


1
VIDEO GAME APPARATUS
2
3
COMMUNICATION DATA DEMODULATOR
4
MAIN MEMORY
5
CPU
100
6
PACKAGE MEDIUM DEMODULATOR
7
AUDIO/VIDEO PROCESSOR
102
101

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 2


11
14
BROADCASTING STATION
12
13
DATA
CONTROL INFORMATION ADDER
TRANSMISSION PROCESSOR

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

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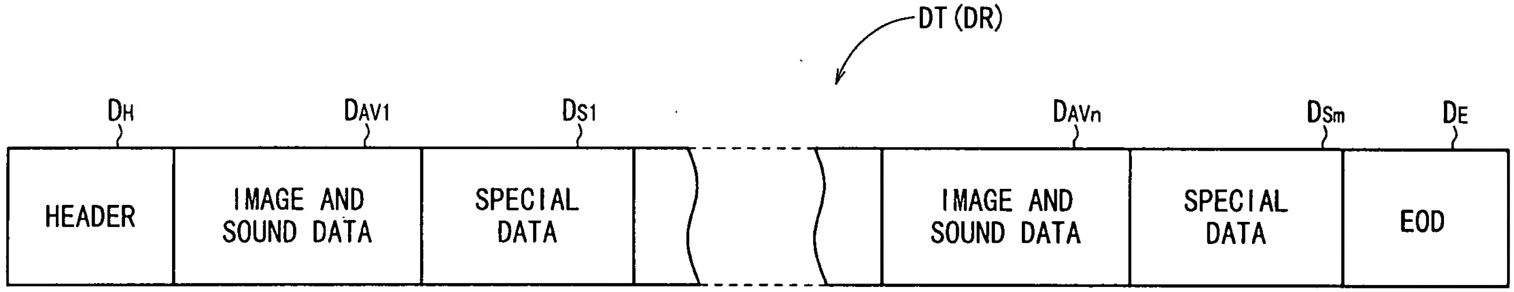
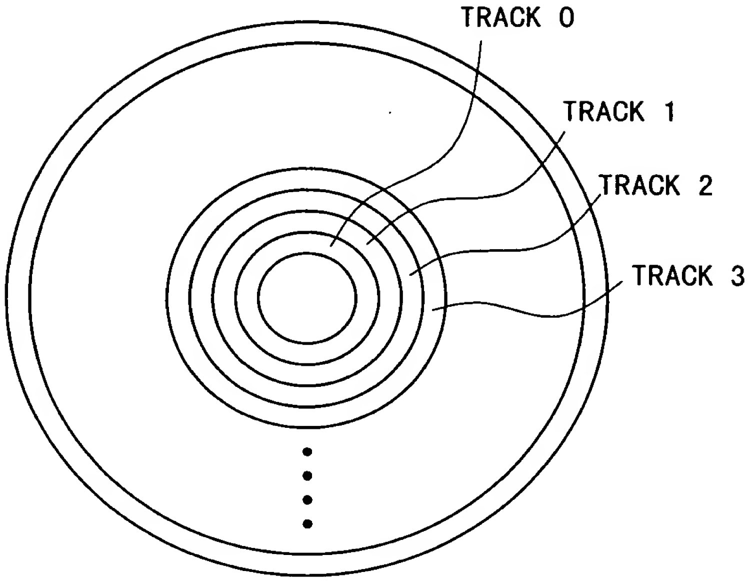
FIG. 3


DT (DR)
DH
DAV1
DS1
DAVn
DSm
DE
HEADER
IMAGE AND SOUND DATA
SPECIAL DATA
IMAGE AND SOUND DATA
SPECIAL DATA
EOD

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

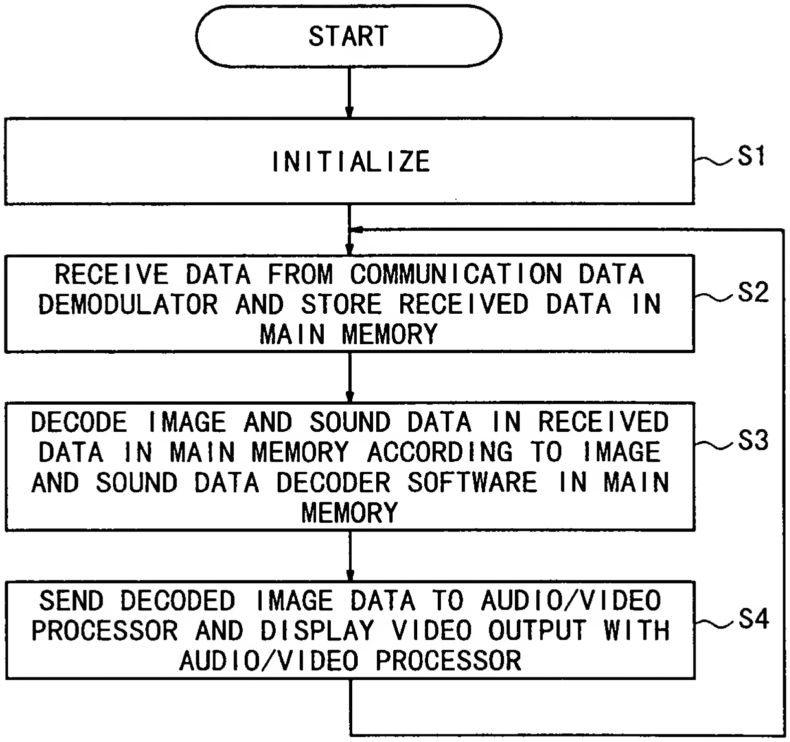
FIG. 4


TRACK 0
TRACK 1
TRACK 2
TRACK 3

09386781 .090299

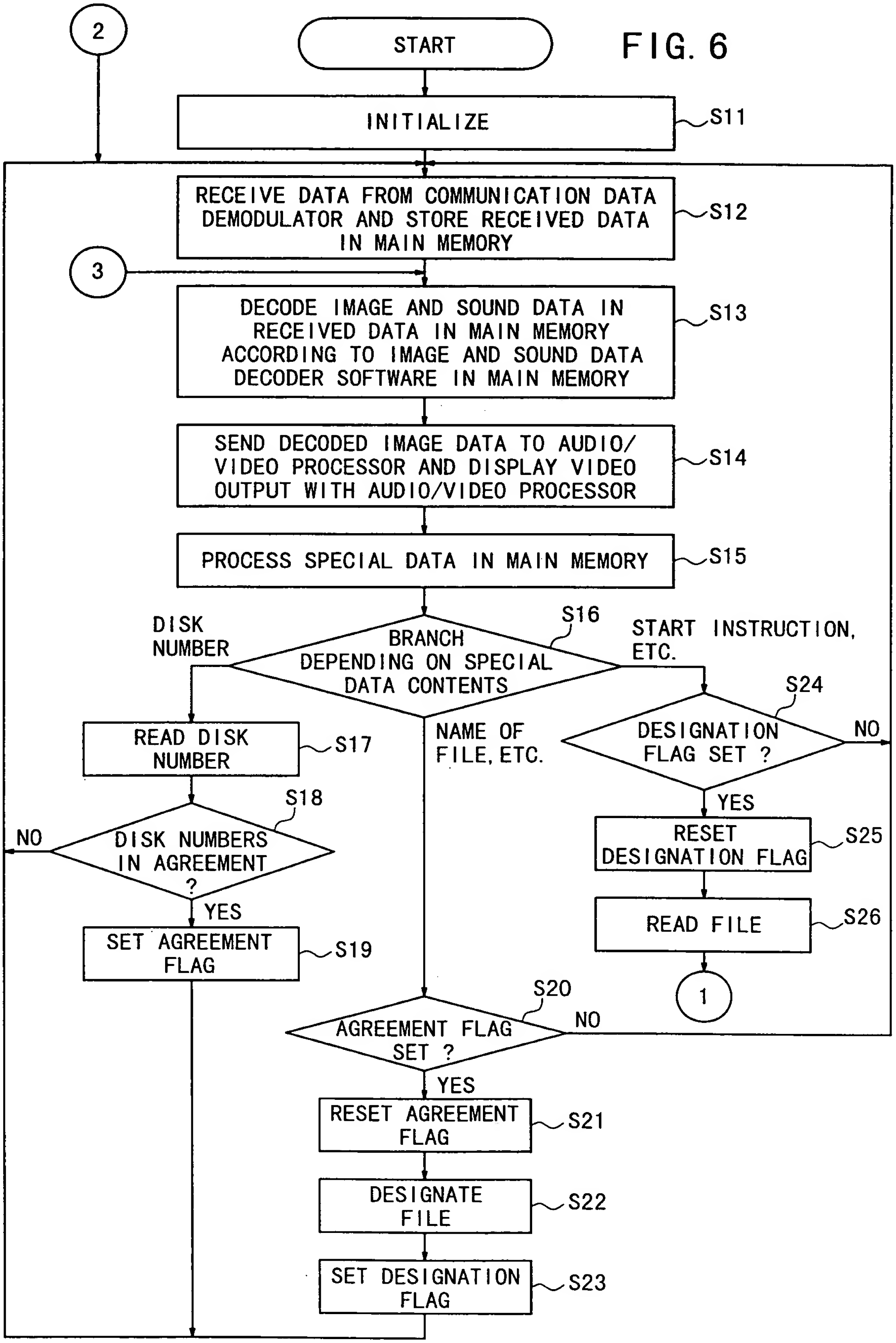
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 5


START
INITIALIZE
S1
RECEIVE DATA FROM COMMUNICATION DATA DEMODULATOR AND STORE RECEIVED DATA IN MAIN MEMORY
S2
DECODE IMAGE AND SOUND DATA IN RECEIVED DATA IN MAIN MEMORY ACCORDING TO IMAGE AND SOUND DATA DECODER SOFTWARE IN MAIN MEMORY
S3
SEND DECODED IMAGE DATA TO AUDIO/VIDEO PROCESSOR AND DISPLAY VIDEO OUTPUT WITH AUDIO/VIDEO PROCESSOR
S4

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

FIG. 6


START
INITIALIZE
S11
2
RECEIVE DATA FROM COMMUNICATION DATA DEMODULATOR AND STORE RECEIVED DATA IN MAIN MEMORY
S12
3
DECODE IMAGE AND SOUND DATA IN RECEIVED DATA IN MAIN MEMORY ACCORDING TO IMAGE AND SOUND DATA DECODER SOFTWARE IN MAIN MEMORY
S13
SEND DECODED IMAGE DATA TO AUDIO/VIDEO PROCESSOR AND DISPLAY VIDEO OUTPUT WITH AUDIO/VIDEO PROCESSOR
S14
PROCESS SPECIAL DATA IN MAIN MEMORY
S15
DISK NUMBER
BRANCH DEPENDING ON SPECIAL DATA CONTENTS
S16
START INSTRUCTION, ETC.
NAME OF FILE, ETC.
READ DISK NUMBER
S17
S18
NO
DISK NUMBERS IN AGREEMENT ?
YES
SET AGREEMENT FLAG
S19
S24
DESIGNATION FLAG SET ?
NO
YES
RESET DESIGNATION FLAG
S25
READ FILE
S26
1
S20
AGREEMENT FLAG SET ?
NO
YES
RESET AGREEMENT FLAG
S21
DESIGNATE FILE
S22
SET DESIGNATION FLAG
S23

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APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 7

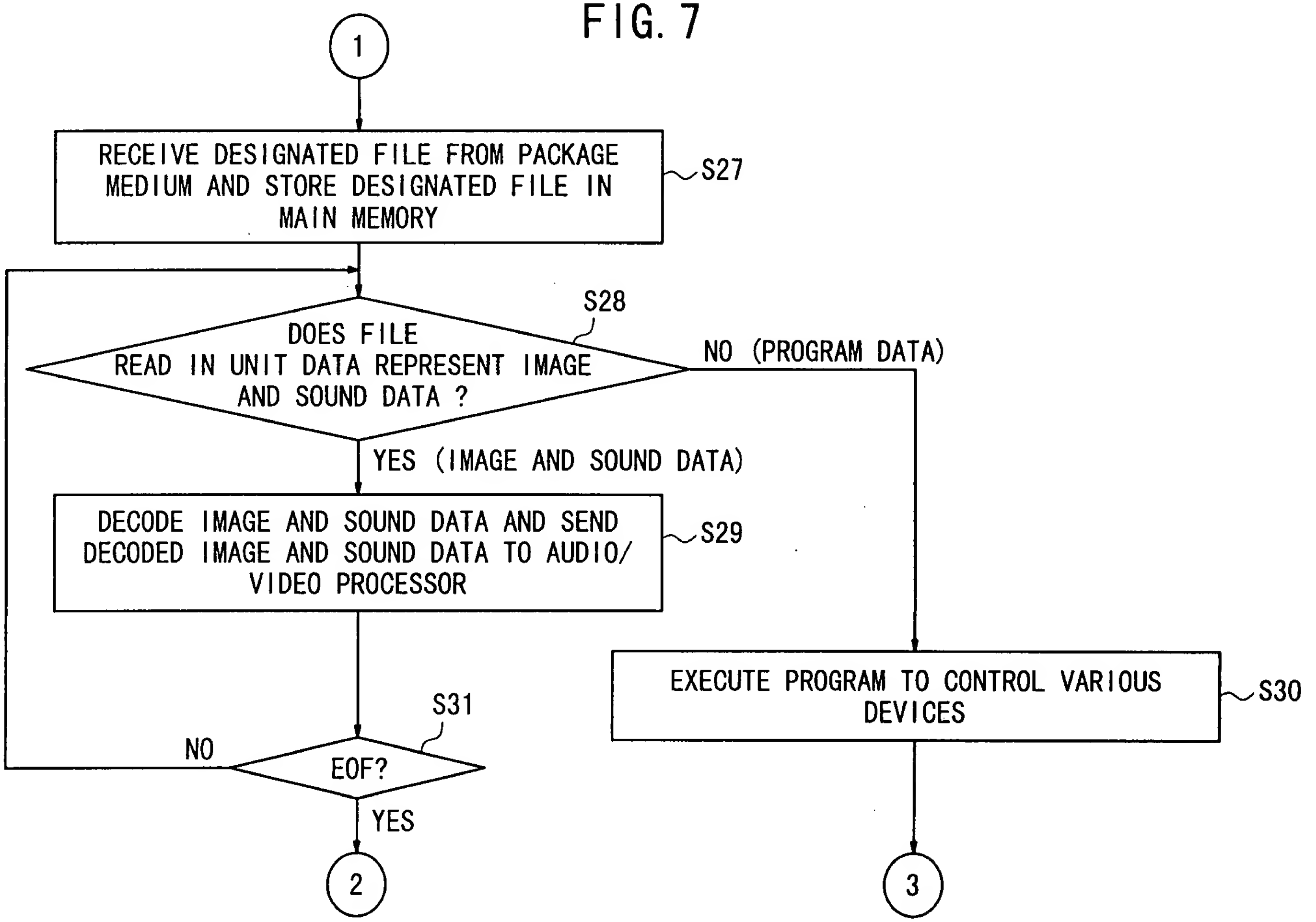
1
RECEIVE DESIGNATED FILE FROM PACKAGE MEDIUM AND STORE DESIGNATED FILE IN MAIN MEMORY
S27
DOES FILE READ IN UNIT DATA REPRESENT IMAGE AND SOUND DATA ?
S28
NO (PROGRAM DATA)
YES (IMAGE AND SOUND DATA)
DECODE IMAGE AND SOUND DATA AND SEND DECODED IMAGE AND SOUND DATA TO AUDIO/VIDEO PROCESSOR
S29
EXECUTE PROGRAM TO CONTROL VARIOUS DEVICES
S30
EOF?
S31
NO
YES
2
3

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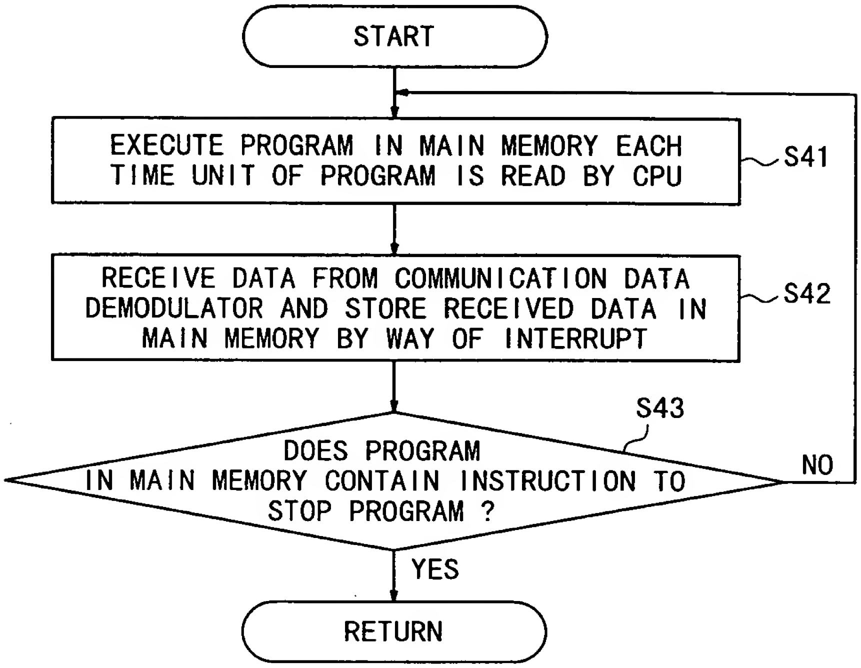
FIG. 8

S30 (EXAMPLE 1)


START
EXECUTE PROGRAM IN MAIN MEMORY EACH TIME UNIT OF PROGRAM IS READ BY CPU
S41
RECEIVE DATA FROM COMMUNICATION DATA DEMODULATOR AND STORE RECEIVED DATA IN MAIN MEMORY BY WAY OF INTERRUPT
S42
S43
DOES PROGRAM IN MAIN MEMORY CONTAIN INSTRUCTION TO STOP PROGRAM ?
NO
YES
RETURN

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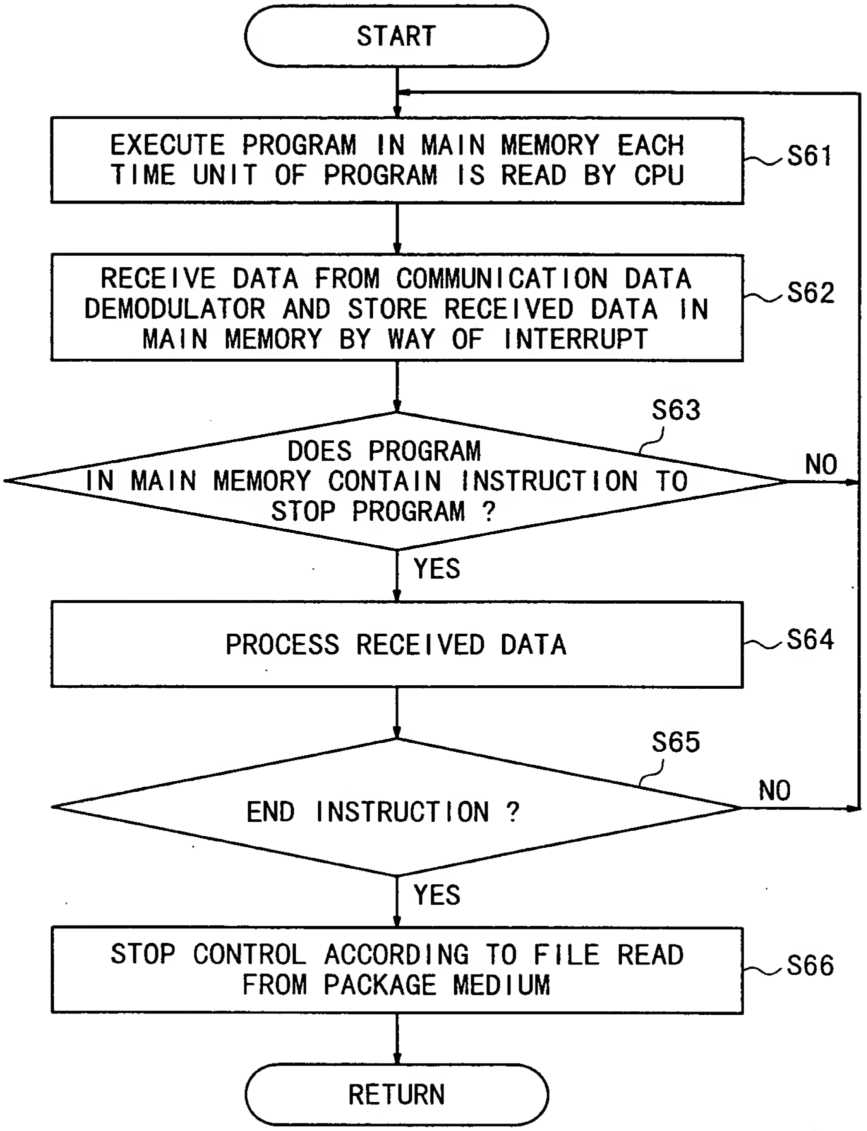
O.G. FIG.
CLASS
SUBCLASS

FIG. 9

S30 (EXAMPLE 2)


START
EXECUTE PROGRAM IN MAIN MEMORY EACH TIME UNIT OF PROGRAM IS READ BY CPU
S61
RECEIVE DATA FROM COMMUNICATION DATA DEMODULATOR AND STORE RECEIVED DATA IN MAIN MEMORY BY WAY OF INTERRUPT
S62
S63
DOES PROGRAM IN MAIN MEMORY CONTAIN INSTRUCTION TO STOP PROGRAM ?
NO
YES
PROCESS RECEIVED DATA
S64
S65
END INSTRUCTION ?
NO
YES
STOP CONTROL ACCORDING TO FILE READ FROM PACKAGE MEDIUM
S66
RETURN

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APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

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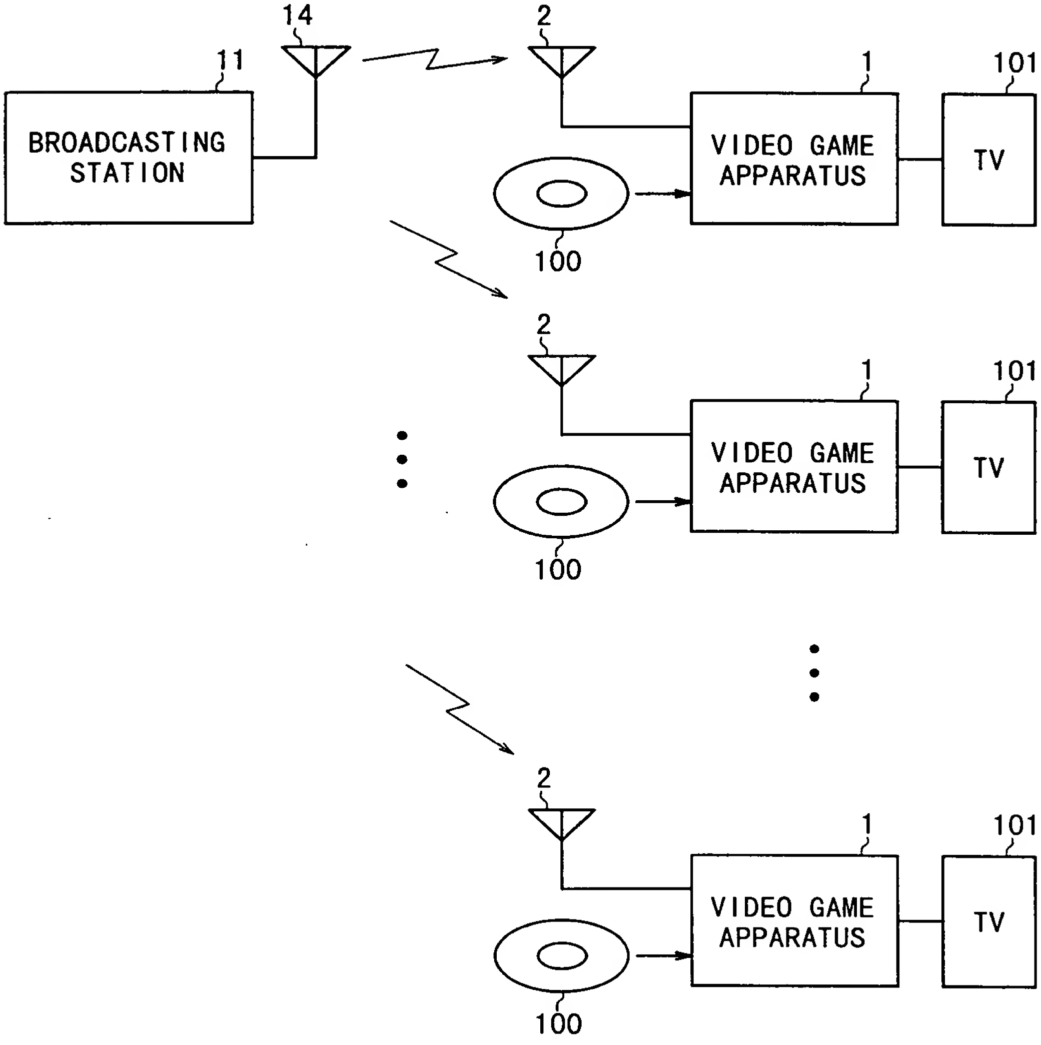
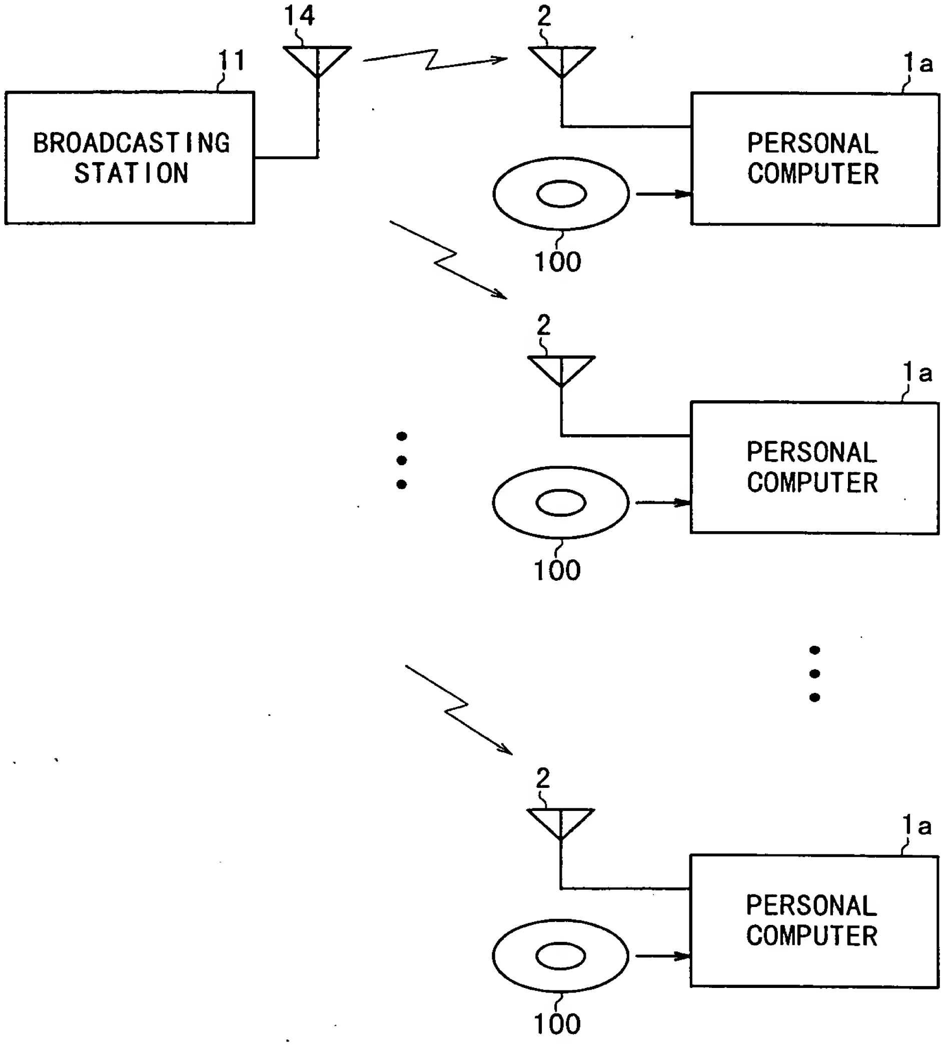
FIG. 10


14
11
BROADCASTING STATION
2
1
101
VIDEO GAME APPARATUS
TV
100
2
1
101
VIDEO GAME APPARATUS
TV
100
2
1
101
VIDEO GAME APPARATUS
TV
100

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

FIG. 11


14
11
BROADCASTING STATION
2
1a
PERSONAL COMPUTER
100
2
1a
PERSONAL COMPUTER
100
2
1a
PERSONAL COMPUTER
100

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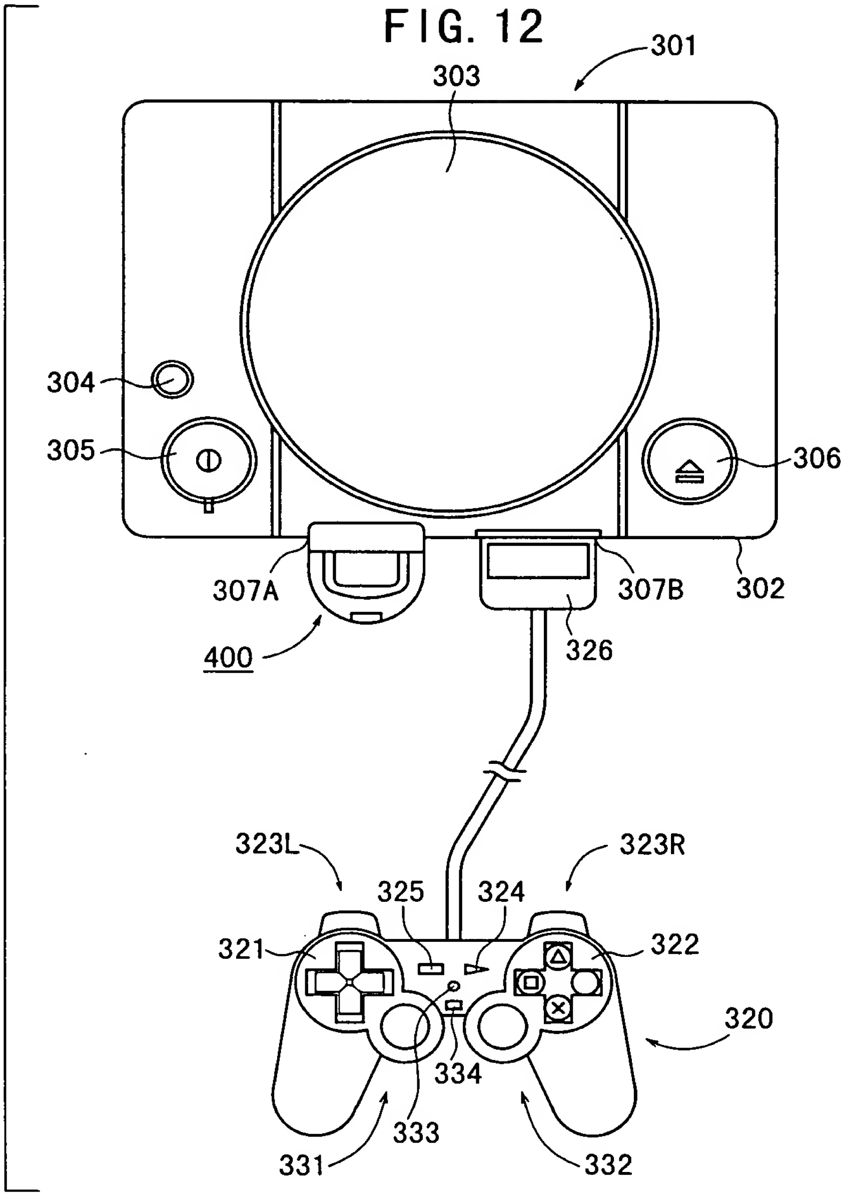
APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

FIG. 12


301
303
304
305
306
307A
307B
302
400
326
323L
323R
325
324
321
322
320
334
333
331
332

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

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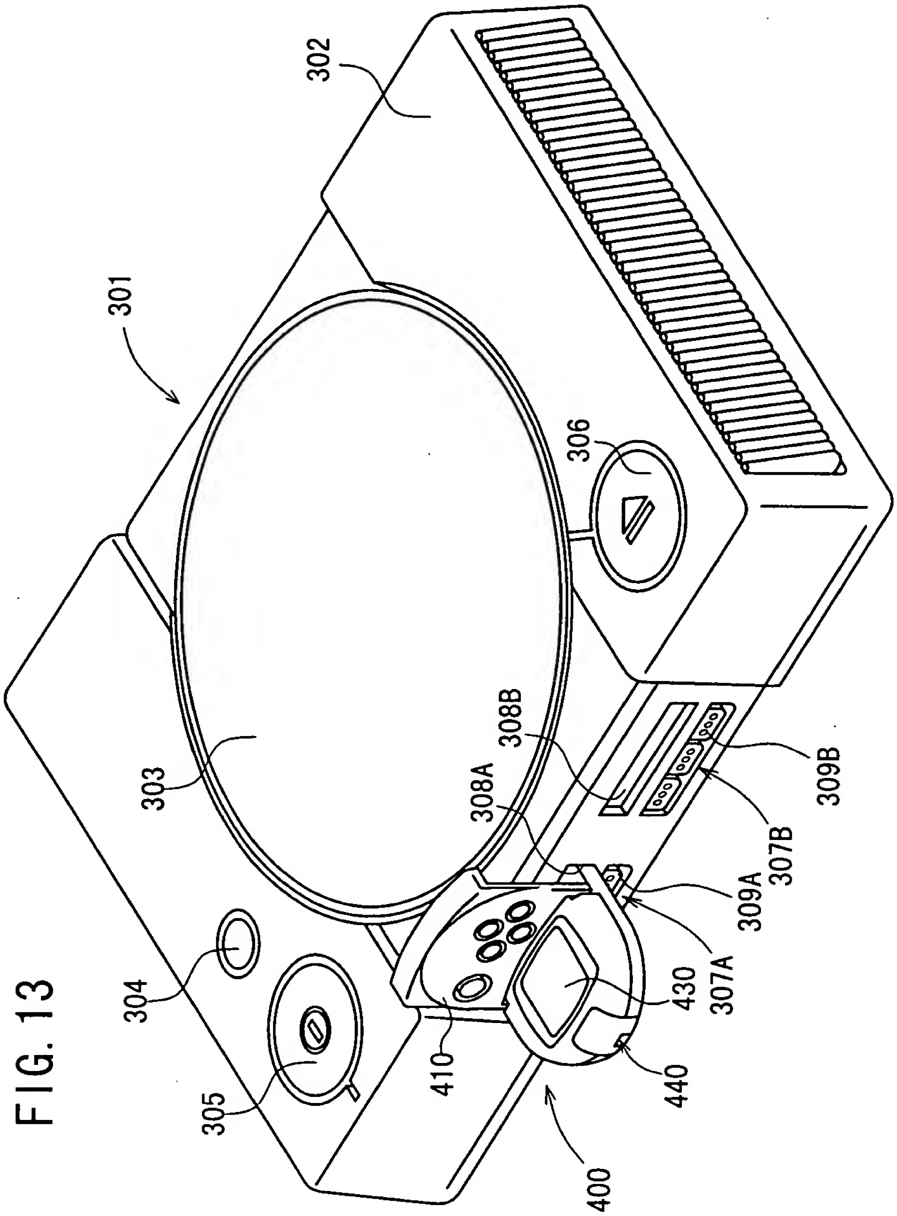

301
302
303
304
305
306
307A
307B
308A
308B
309A
309B
400
410
430
440

FIG. 13

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

FIG. 14

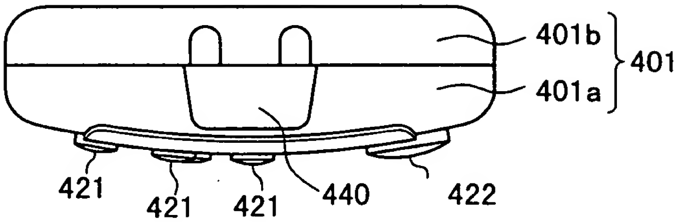

401b
401
401a
421
421
421
440
422

FIG. 15

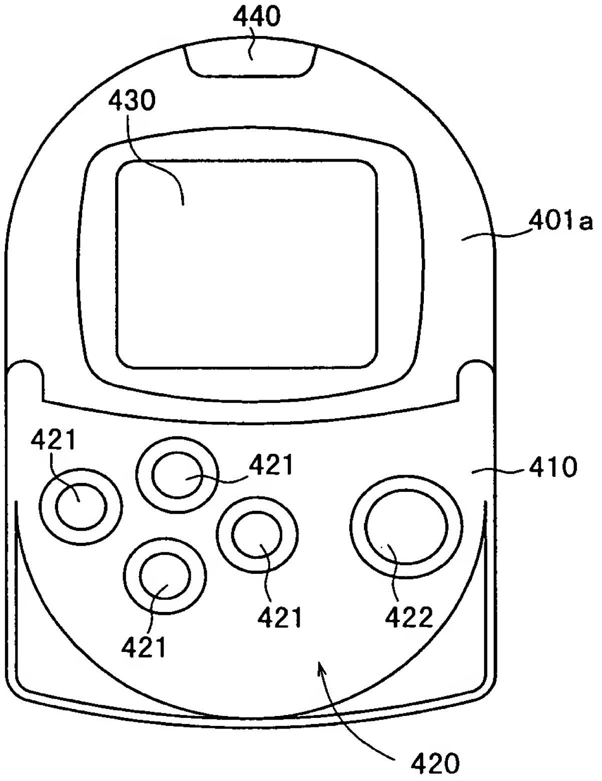
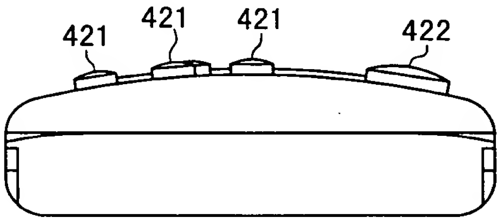

440
430
401a
421
421
410
421
421
422
421
420

FIG. 16


421
421
421
422

09388781.090299

APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

FIG. 17

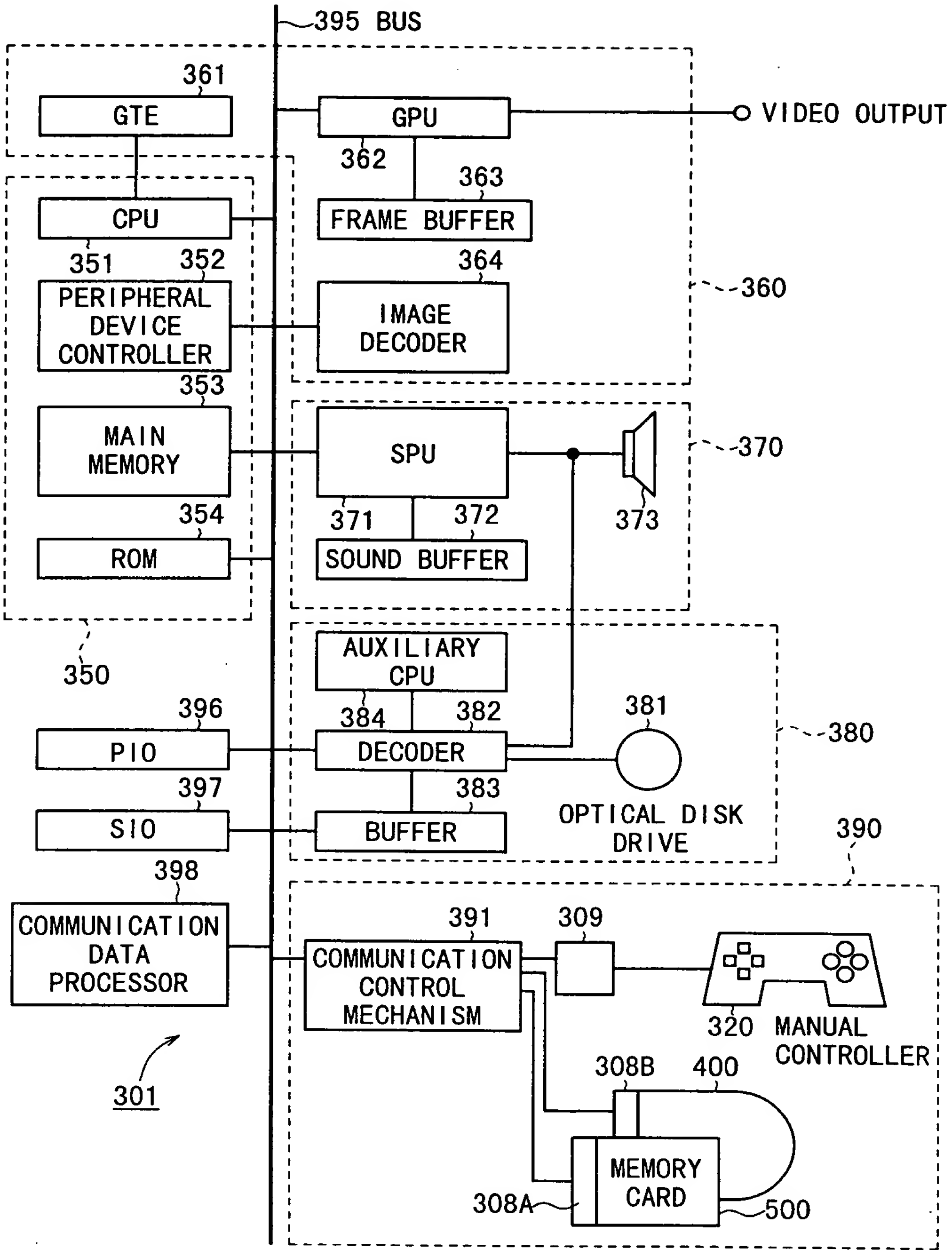

395 BUS
361
GTE
GPU
VIDEO OUTPUT
362
363
FRAME BUFFER
CPU
351
352
PERIPHERAL DEVICE CONTROLLER
364
IMAGE DECODER
360
353
MAIN MEMORY
SPU
370
371
372
373
354
ROM
SOUND BUFFER
AUXILIARY CPU
350
396
384
382
381
PIO
DECODER
380
397
383
SIO
BUFFER
OPTICAL DISK DRIVE
390
398
COMMUNICATION DATA PROCESSOR
391
309
COMMUNICATION CONTROL MECHANISM
320
MANUAL CONTROLLER
301
308B
400
MEMORY CARD
308A
500

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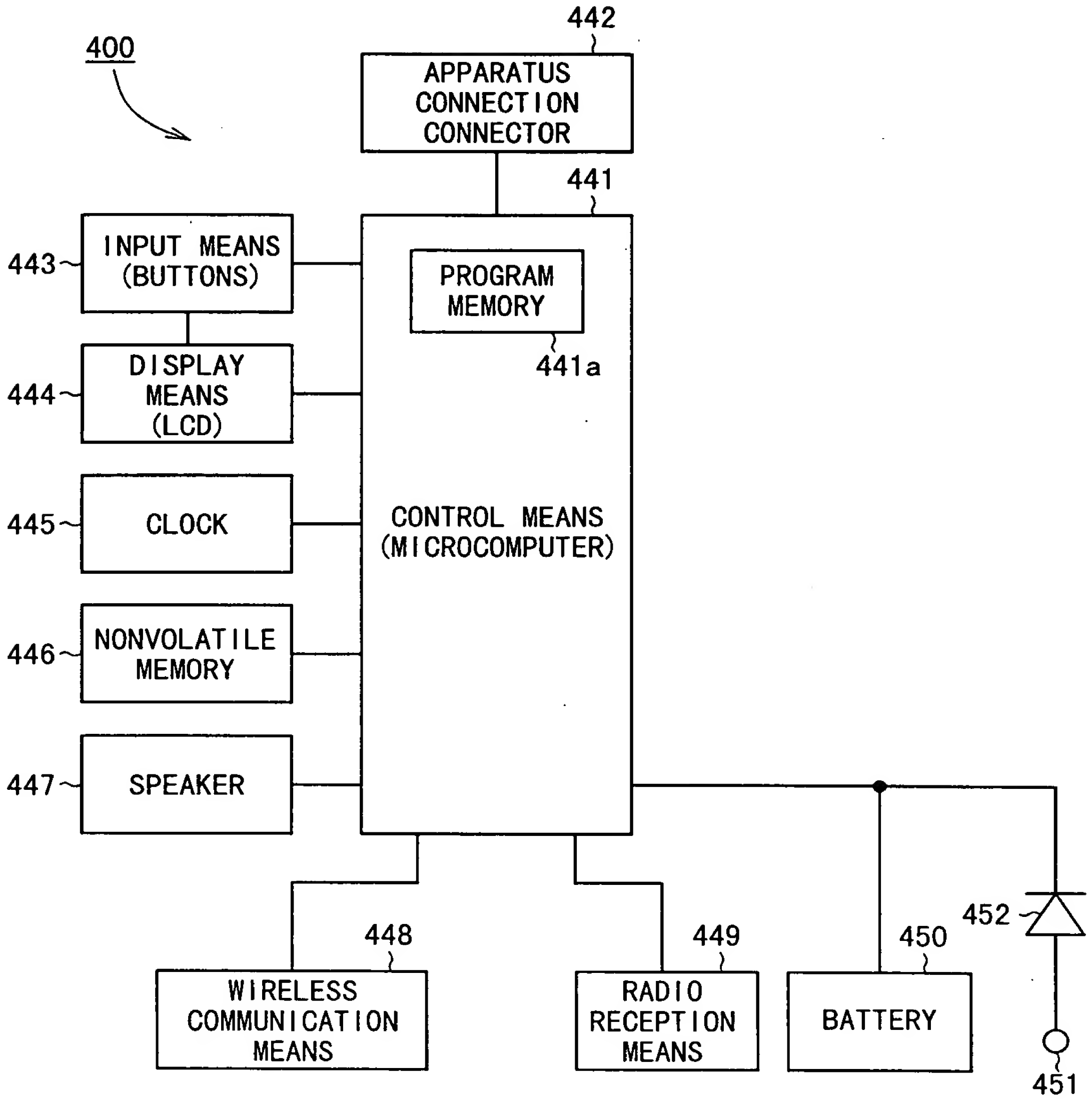
FIG. 18



400
442
APPARATUS CONNECTION CONNECTOR
441
443
INPUT MEANS (BUTTONS)
PROGRAM MEMORY
441a
444
DISPLAY MEANS (LCD)
445
CLOCK
CONTROL MEANS (MICROCOMPUTER)
446
NONVOLATILE MEMORY
447
SPEAKER
452
448
449
450
WIRELESS COMMUNICATION MEANS
RADIO RECEPTION MEANS
BATTERY
451

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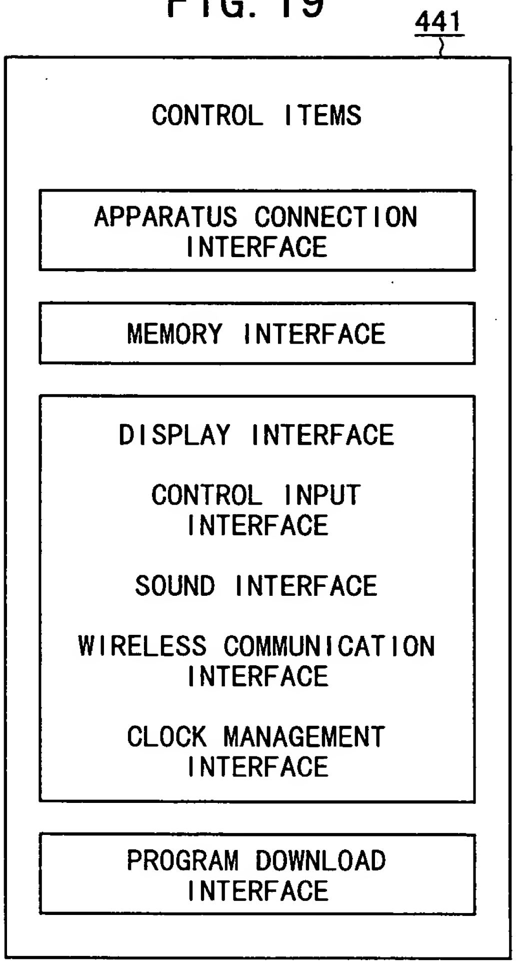
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 19


441
CONTROL ITEMS
APPARATUS CONNECTION INTERFACE
MEMORY INTERFACE
DISPLAY INTERFACE
CONTROL INPUT INTERFACE
SOUND INTERFACE
WIRELESS COMMUNICATION INTERFACE
CLOCK MANAGEMENT INTERFACE
PROGRAM DOWNLOAD INTERFACE